

Introduction

- HIV/HCV coinfection increases liver-related morbidity and mortality¹
- This special population should be prioritized for treatment²
- Although currently available direct-acting antivirals (DAAs) are safe and effective, there are many drug interactions (DIs)
- Carbamazepine (CBZ) is contraindicated with all available DAAs³
- There are no clear treatment options for patients who cannot stop CBZ

Case Report

HPI: Patient is a 59-year-old man with well-controlled HIV on HAART, wellcontrolled trigeminal neuralgia on CBZ, anemia, and chronic HCV, non-cirrhotic (FibroScan 12 kPa), treatment naïve.

- Genotype 1a
- HCV RNA 14,400,000 IU/mL
- ALT 29 IU/L

Dilemma: Due to DIs between DAAs and CBZ, multiple attempts were made to discontinue CBZ, but were unsuccessful. Neurosurgery offered surgical gamma knife management, but up to 40% of patients still require CBZ post-procedure.

Treatment Plan:

- Daclatasvir (DAC)-sofosbuvir (SOF)-ribavirin (RBV) was proposed, but DAC is no longer available in the US⁴.
- Patient was followed conservatively but developed thrombocytopenia and progression of fibrosis (FibroScan 14.7kPa).
- Patient prescribed 16 weeks of Glecaprevir (GLE)/pibrentasvir (PIB) + SOF 400mg (OFF-LABEL) with 4 weeks of ezetimibe 10mg (OFF-LABEL).

Contact

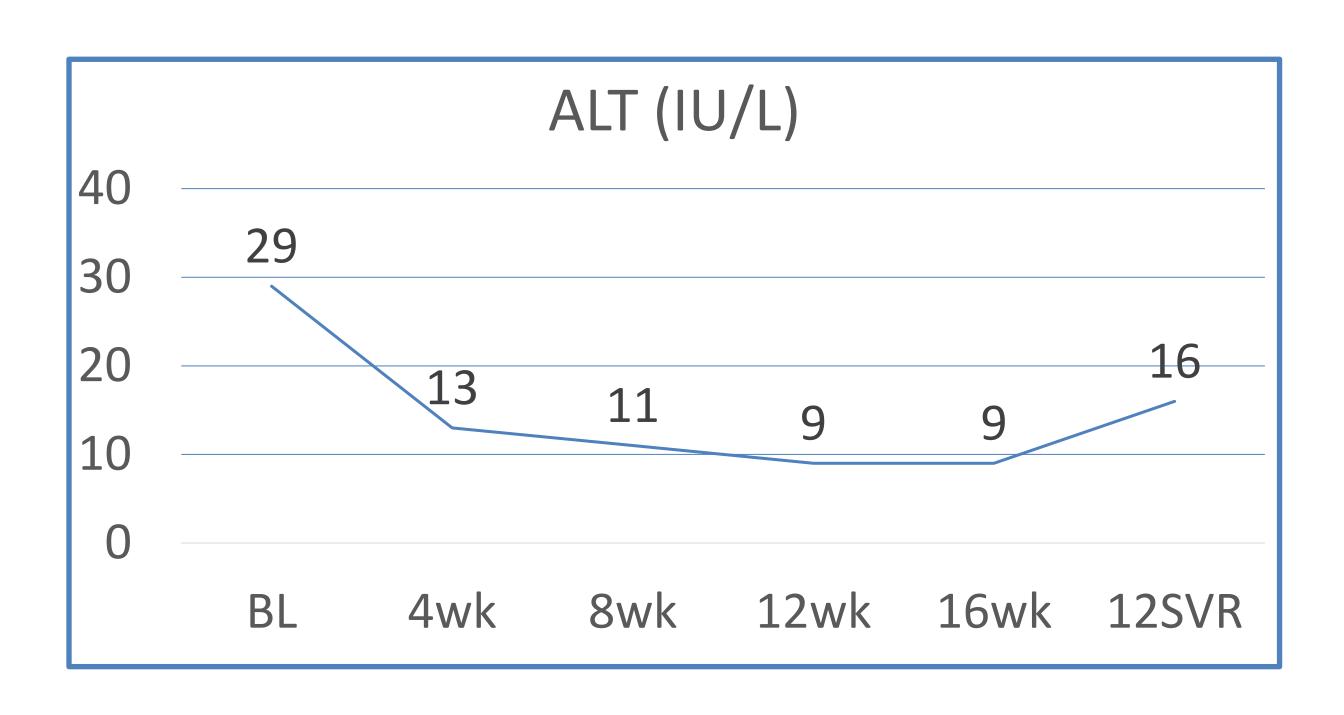
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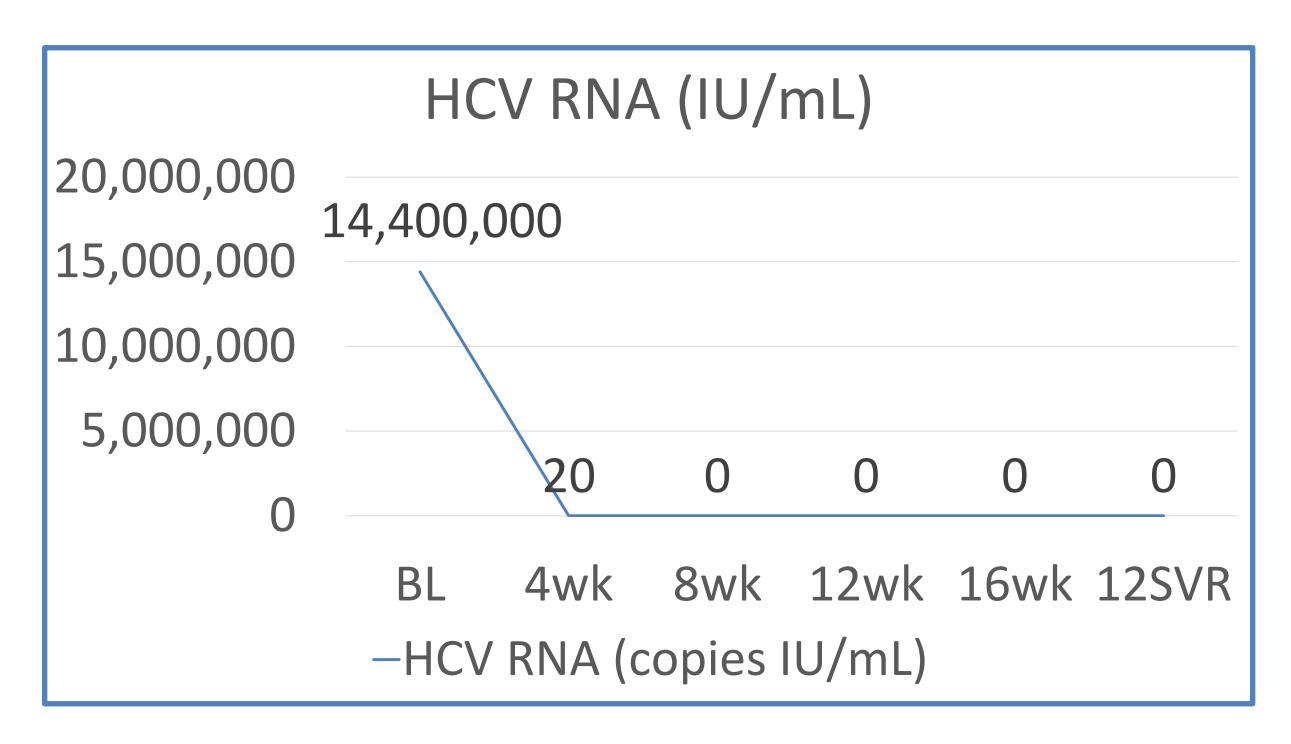
A Hepatitis C (HCV) Infection Dilemma

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Table 1. HCV RNA and ALT Values with Ezetimibe Initiation

	Baseline	4wk	8wk	12wk	16wl	12SVR
HCV RNA (IU/mL)	14,400,000	20	ND	ND	ND	ND
ALT (IU/L)	29	13	11	9	9	16





- At week 8, HCV viral load was undetectable.
- score to 9.6 kPa.

duration⁶.

- into the hepatocyte⁷.
- study to other patients.

References

//HCV Coinfection | HCV Guidance (hcvguidelines.org)[6/5/202 /ang, A. Asatryan, E. Gane, et al. (2018). Glecaprevir–Pibrentasvir for 8 or 12 Weeks in HCV Genotype 1 or 3 Infection. NEJM, 378(4):354-369 DOI: 10.1056/NEJMoa1702417 5. Wyles D, Weiland O, Yao B, et al. (2019). Retreatment of patients who failed Glecaprevir/pibrentasvir treatment for hepatitis C virus infection. J Hepatol, 70(5):1019-102 7. Feld JJ, Cypel M, Kumar D, Dahari H, Pinto Ribeiro RV, et al. (2020). Short-course, direct-acting antivirals and ezetimibe to prevent HCV infection in recipients of organs from HCV-infected donors: a phase 3, single-centre, open-label study. Lancet Gastroenterol Hepatol, 5(7):649-657. doi: 10.1016/S2468-1253(20)30081-9.

*Disclosure

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Results

• At 4 weeks of treatment, HCV viral load was still detectable.

• Patient was hesitant to start ezetimibe due to past adverse reaction to statin and was re-educated on the purpose of ezetimibe and reassured.

• Ezetimibe was taken for weeks 4-8 of treatment.

• Patient achieved SVR 12 (Table 1) and showed improvement of his FibroScan

Discussion

• GLE/PIB is pangenotypic, has a high barrier to resistance⁵, and has been proven safe and effective in combination with SOF + RBV for 16 weeks

• Patient has history of anemia, making RBV undesirable. • Ezetimibe blocks the NPC1L receptor which potentially inhibits HCV entry

• There is a need for larger studies to determine the applicability of this case